We claim:-

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- A process for preparing a polymer comprising (meth)acrylate salt units by free-radical polymerization of (meth)acrylate salt with or without another monomer in an aqueous medium, which comprises using a supersaturated aqueous solution of (meth)acrylate salt.
  - The process of claim 1 wherein the supersaturated aqueous solution of (meth)acrylate salt used comprises 40 to 90 mol% of (meth)acrylate salt and 10 to 60 mol% of (meth)acrylic acid.
    - 3. The process of claim 1 or 2 wherein the supersaturated aqueous solution of (meth)acrylate salt is cooled down to below 40°C by producing a more than 100 mol% neutralized first (meth)acrylate salt solution and subsequently (meth)acrylic acid is added in a continuous operation and, prior to the complete precipitation of the resulting (meth)acrylate salt, is fed to a polymerization reactor and polymerized.
- 4. The process of any of claims 1 to 3 wherein the reactor for the polymerization is a continuous kneading reactor, a spray polymerization reactor or a continuous polymerization belt.
- The process of any of claims 1 to 4 wherein (meth)acrylic acid comprising not more than 2000 ppm of dimers and less than 150 ppm of hydroquinone
  monomethyl ether is used as an acidic monomer.
  - 6. The process of any of claims 1 to 5 wherein the supersaturated aqueous solution comprises 0.001 to 5 mol% of one or more monomers comprising two or more ethylenically unsupersaturated double bonds.
  - 7. The process of any of claims 1 to 6 wherein the supersaturated aqueous monomer solution is prepared using solid anhydrous (meth)acrylate salt.
- 8. The process of any of claims 1 to 7 wherein the supersaturated aqueous solution is prepared using solid (meth)acrylate salt having a water content from 0.1% to 10% by weight.
- The process of any of claims 1 to 8 wherein (meth)acrylate salt is used in the form of a supersaturated aqueous solution or dispersion obtained by
  neutralization of (meth)acrylic acid with aqueous hydroxide solution, hydroxide, carbonate or hydrogen carbonate.

- 10. The process of any preceding claim wherein (meth)acrylate and (meth)acrylic acid denotes acrylate and acrylic acid.
- The process of any preceding claim wherein (meth)acrylate salt denotes alkali
  metal (meth)acrylate and especially sodium (meth)acrylate.
  - 12. A polymer comprising (meth)acrylate units, obtainable by the process of claims 1 to 11.
- 13. The use of a solid salt of a (meth)acrylate for preparing a polymer by dissolving a solid salt of a (meth)acrylate in water to form a supersaturated aqueous monomer solution and polymerizing the monomer solution in the presence or absence of another monomer.